Battery monitoring systems comprise monitoring and control units, sensors, and software that are used to maintain and monitor battery health under optimal condition to make sure that it is performing to its full potential. The numerous advantages that batteries offer over other similar energy storage technologies and technological developments in different battery technologies have increased the adoption of batteries for energy storage used in emergency and grid-scale applications. The use of these cells in highly demanding conditions where they regularly operate outside the quantified state leads to quicker degradation of the cell, thereby upsurging the chances of failure.

The need to prevent unplanned outages, increasing demand for electric vehicles, and improved operational efficiency of batteries have boosted the demand for battery monitoring systems. In addition, increasing renewable power generation and the growing use of battery monitoring systems in data center applications would further aid the growth of this market. The high costs of battery monitoring systems for larger battery solutions would act as a restraint for the battery monitoring system market. The increasing market for green data centers is one of the key trends that will contribute to the growth of this market in the forthcoming years. One of the main issues faced by data center operators in developed countries are high power consumption and carbon emissions. This has resulted in creating awareness among enterprises to set up green data center facilities where energy-efficient operations lower the electricity consumption rates and carbon footprints. The Americas is expected to be the major revenue contributor to the battery monitoring systems market throughout the forecast period due to the increases in demand for battery monitoring solutions in the region.

The global Battery Monitoring Systems market was valued at 2300 million US$ in 2018 and will reach 8650 million US$ by the end of 2025, growing at a CAGR of 18.0% during 2019-2025.

This report focuses on Battery Monitoring Systems volume and value at global level, regional level and company level. From a global perspective, this report represents overall Battery Monitoring Systems market size by analyzing historical data and future prospect. Regionally, this report categorizes the production, apparent consumption, export and import of Battery Monitoring Systems in North America, Europe, China, Japan, Southeast Asia and India. For each manufacturer covered, this report analyzes their Battery Monitoring Systems manufacturing sites, capacity, production, ex-factory price, revenue and market share in global market.

The following manufacturers are covered:
ABB
BTECH
General Electric
NDSL Group
Vertiv

Segment by Regions
North America
Europe
China
Japan
Southeast Asia
India

Segment by Type
Lead-Acid Batteries
Li-Ion Batteries
Ni-Cd Batteries

Segment by Application
Automotive Industry
Energy Industry
Telecom and Data Center Industry

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